Table I (1 of 3)
Identification of Achievable Performance Standards
Source Category: Polyester Resin Operations

Regulated Component	**Pollutant**	**Rule/Measure/Date**				
		Bay Area AQMD Rule 8-50 Polyester Resin Operations Last Revised 12/20/95	Colusa APCD Rule 2-37 VOC Control Measure for Polyester Resin Operations Last Revised 1/23/96	Sacramento AQMD Rule 465 Polyester Resin Operations Last Revised 2/6/97	Santa Barbara APCD Rule 349 Polyester Resin Operations Last Revised 4/27/93	South Coast AQMD Rule 1162 Polyester Resin Operations Last Revised 5/13/94
		Performance Standard				
Compounds exempt in all rules.	VOC	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane	Carbon monoxide Carbon dioxide Carbonic acid Metallic carbides or carbonates Ammonium carbonate Methane
There are approximately 20 additional compounds exempt in the following districts, unless indicated otherwise: COLAPCD SACAQMD SBAPCD SCAQMD SDAPCD SJUAPCD YSAQMD VENAPCD	VOC	Does not exempt the 20 additional compounds, exempts: acetone, parachlorobenzotrifluoride (PCBTF), cyclic, branched or linear completely methylated siloxanes (VMS), and cetone (sic).	The 20 additional compounds.	Including the following: ethane, parachlorobenzotrifluoride (PCBTF), acetone, perchloroethylene (tetrachloroethylene), 3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca), 1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb), 1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee), and cyclic, branched, or linear completely methylated siloxanes.	Including the following: Ethane, acetone, parachlorobenzotrifluoride (PCBTF), and cyclic, branched or linear completely methylated siloxanes (VMS).	Including carbon tetrachloride.
General Polyester Resin Material	VOC	<35% by weight monomer content	<35% by weight monomer content	<35% by weight monomer content	<35% by weight monomer content	<35% by weight monomer content

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		Performance Standard									
Resin Containing Vapor Suppressant	VOC/ROC	x	weight loss from VOC emissions <60 g/sq. m	x	weight loss from VOC emissions <60 g/sq. m	x	weight loss from VOC emissions <60 g/sq. m	x	weight loss from ROC emissions <60 g/sq. m	x	weight loss from VOC emissions <60 g/sq. m
Closed-mold System	VOC		Yes, no limit.	x	Yes, weight loss < 4%		Yes, no limit.		Yes, no limit.	x	Yes, weight loss < 4%
High Strength Materials	VOC		None.		<48% monomer content by weight		None.		None.	x	<48% monomer content by weight
Specialty Resins	VOC		See corrosion-resistant materials and fire retardant materials.		See high strength materials, corrosion-resistant materials and fire retardant materials.	x	<50% monomer content by weight	x	<50% monomer content by weight		See high strength materials, corrosion-resistant materials and fire retardant materials.
Corrosion-resistant Materials	VOC		<50% monomer content by weight		<50% monomer content by weight		See Specialty Resins.		See Specialty Resins.	x	<48% monomer content by weight
Fire Retardant Materials	VOC		<50% monomer content by weight	x	<42% monomer content by weight		See Specialty Resins.		See Specialty Resins.	x	<42% monomer content by weight
Cleaning Materials Cleaning Materials (continued)	VOC		<200 g VOC/l material Shall not use organic compounds for the clean-up of spray equipment including spray lines unless equipment for collecting the cleaning material	x	When cleaning materials containing >1.7 lbs of VOC per gallon or having initial boiling point < 190° C exceeds 4 gallons per day, a cleaning material reclamation system with 80%		Cleaning materials containing >1.7 lb VOC per gallon(204 gm/l), shall not be used except in enclosed gun cleaners or to clean molds, spray equipment or other dispensing		None.	x	Use cleaning materials with <50 grams VOC per liter (0.42 lb VOC per gallon). A person shall use closed containers or hand held spray bottles from which solvents are

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		Performance Standard									
			and minimizing their evaporation to the atmosphere is used.		efficiency shall be used. Solvent residues for the system shall be < 20% VOC by weight.		equipment tools used in gel coat or specialty resin operations, provided that the cleaning materials < 4 gallons per week.				applied without a propellant-induced force, cleaning equipment which has a solvent container that can be and is closed during cleaning operations, and a solvent flushing method where the cleaning solvent is discharged into a container which is closed except for solvent collection openings and the discharged solvent must be collected into containers without atomizing into the open air.
Gel Coat	VOC	x	<250 g VOC per l coating applied		See clear gel coat and pigmented gel coat.		See clear gel coat and pigmented gel coat.		See clear gel coat and pigmented gel coat.		See clear gel coat and pigmented gel coat.

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		Performance Standard									
Clear Gel Coat	VOC		See gel coat.	x	<50% monomer content by weight	x	<50% monomer content by weight	x	<50% monomer content by weight	x	<50% monomer content by weight
Pigmented Gel Coat	VOC		See gel coat.	x	<45% monomer content by weight	x	<45% monomer content by weight	x	<45% monomer content by weight	x	<45% monomer content by weight
Alternative Emission Control Requirements (in lieu of meeting process standards)	VOC		>85% control and capture efficiency		>85% control and capture efficiency		>85% control and capture efficiency, written approval by APCO, operation under APCO approved operation and maintenance plan		>85% control and capture efficiency	x	>90% control and capture efficiency
Pultrusion Operations	VOC		None.	x	Shall have covered wet-out baths. From exit of the bath to the die, all but 18 inches of the preform distance shall be enclosed to minimize airflow. < 3% weight loss		None.		None.	x	Shall have covered wet-out baths. From exit of the bath to the die, all but 18 inches of the preform distance shall be enclosed to minimize airflow. < 3% weight loss
Surface Preparation	VOC		None.		None.		None.		None.		None.
Spraying Operations	VOC		Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray.		Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray.		Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray.		Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray.	x	Use airless spray, air-assisted airless spray, electrostatic spray, high-volume/low-pressure spray. For touch-up and repair,

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		Performance Standard									
Spraying Operations (continued)											a handheld air atomized spray gun with a resin container as part of the gun may be used.
Resin Baths	VOC	x	Shall be covered.		None.		None.		None.		None.
Compound Limitations	VOC		None.		None.		None.		None.		None.
Monitoring and Records	VOC/ROC	NQ	Shall maintain list of polyester resins, catalyst, cleaning material, % VOC in polyester resin materials, and grams of VOC per liter for cleaning materials. For vapor suppressed resins maintain list of weight loss during polymerization, monomer % and gel time. Daily records of amount of polyester resin materials and cleaning materials used, volume of resin and cleaning materials used for touch-up and repair,	NQ	Shall maintain list of polyester resins, catalyst, cleaning material, % VOC in polyester resin materials, and grams of VOC per liter for cleaning materials. For vapor suppressed resins maintain list of weight loss during polymerization, monomer % and gel time. Records of amount of polyester resin materials and cleaning materials used, volume of resin and cleaning materials used for touch-up and repair,	NQ	Shall maintain records of type and quantity of all resins, catalysts, cleaning materials, filler material, pigment materials, and all additional additives used in resins as applied. Records of monomer content, in weight %, all resin materials used or stored at the facility, VOC content of all cleaning materials used and stored at the facility, and records of hours of operation and key operating parameters. For vapor suppressed	NQ	Shall maintain list of polyester resins, catalyst, cleaning material, % ROC in polyester resin materials, and grams of ROC per liter for cleaning materials. For vapor suppressed resins maintain list of weight loss during polymerization, monomer % and gel time. Records of key operating parameters for each day of operation for add-on control equipment. All records shall be	NQ	Shall maintain daily records of manufacturer's name, type and amount of each polyester resin, corrosion resistant, fire retardant, high strength materials and gel coats used, %weight of monomer, amount of VOC-containing materials, VOC content in grams/liter, for vapor suppressed resins a certificate from a resin manufacturer for each resin type, and for closed-mold and pultrusion operations the % weight loss of polyester resin materials for each application.

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		Performance Standard									
Monitoring and Records (continued)			and hours of operation and key system operating parameters. All records shall be retained for the previous 24 month period.		and record of hours of operation and key system operating parameters. All records shall be retained for the previous 24 month period.		resins maintain list of weight loss during polymerization, and amount used. Records maintained on 1)monthly basis if total VOC emissions >5 tons/year, 2)annual basis if total VOC emissions < or equal to 5 tons/year, 3) all records shall be maintained for a continuous 3 year period. If at any time a source uses a coating which does not comply with the standardsin Section 301, daily records regarding the use and lack of use of that non-compliant resin shall be maintained.		retained for the previous 24 month period.		Records of cleaning solvents subject to Rule 1171 shall be maintained pursuant to Rule 109. Maintain daily records of all key operating parameters.
Storage	VOC/ROC	x	Use closed containers for storage of all polyester resin materials, cleaning	x	Use closed containers for storage of all uncured polyester resin materials,	x	Use closed containers for storage of all polyester resin materials, cleaning	x	Use closed containers for storage of all polyester resin materials, cleaning		Use closed containers for storage of all resin materials except when accessed for use.

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Storage (continued)			materials and any unused VOC-containing materials except when accessed for use.		cleaning materials and any unused VOC-containing materials except when accessed for use.		materials and any unused VOC-containing materials except when accessed for use.		materials and any unused ROC-containing materials except when accessed for use.		
Disposal	VOC/ROC	x	Shall use self-closing containers for the disposal of all polyester resin materials, cleaning materials, waste materials, and any unused VOC containing materials.		Shall use self-closing containers for the disposal of all uncured polyester resin materials, cleaning materials, waste materials, and any unused VOC containing materials.		Shall use closed containers for the disposal of all uncured polyester resin materials, cleaning materials, waste materials, and any unused VOC containing materials.	x	Use closed containers for disposal of all polyester resin materials, cleaning materials and any unused ROC-containing materials except when accessed for use.		Use closed containers for disposal of all resin materials except when accessed for use.

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